## CHAPTER IV.

#### YIELD AND WORKING.

## 1.—DEPARTMENTAL OPERATIONS.

#### TIMBER AND FIREWOOD.

149. The results of timber and firewood operations of the North Thána division are given in the following table:—

		Number		Yı	ELD.		-				0.	
No.	Range.	of Coupes.	Aréa.	Timber.	Firewood.	_ c	ost.		Recei	ipts.	2	Remarks.
			Acres.	Pieces.	Cart-loads.	Rs.	a,	p.	Ŕs.	a,	<b>p.</b>	ā.
1	Sálsette	1	31	1,645	892		0	9	1,337	0	0	Ma Ma
2 3	Bassein	0	232 133	7,941 8,810	6,483	2,792 955	10 7	9	12,656 $3,389$	1 4	6 0	-
4	Máhím Umbargaon	4	183	4,152	1,396	1,086	6	6	5,216		0	
	Total	13	579	22,548	9,386	5,476	9	3	22,599	3	 6	

150. Of the above material 841 cart-loads of firewood were sold on permits to villagers for household consumption, and the following quantities of material were sold by retail auction in small lots to meet the requirements of the local population; but the competition at the sales was very feeble and the demand was so small that all the remaining material had to be sold to dealers for trade purposes:—

No.			Range.		<b>.</b>		Timber.	Recei	ipts.		Remarks
			<b>v</b> 1	· · · · · · · · · · · · · · · · · · ·	-	_	Pieces.	Rs.	а.	p:	* * * * * * * * * * * * * * * * * * * *
1 2 3	Sálsette Bassein Máhím	•••	***	·	59	•••	1,645 7,584 1,074 2,238	1,337 5,340 725 3,324	0 8 4 6	0 0 0	
4	Umbarga	on	<u>"</u>		Total	4.	12,541	10,727	2		

- 151. The attendance and demand generally for material at the retail auction sales have greatly fallen off during the year. This is due to the very large increase in the number of contract fellings, i. e. sales of standing timber and firewood by compartments, to contractors, to which villagers now prefer to go for their wants in timber and other forest produce. It will thus be seen that private enterprise has established a local timber trade which can satisfy and is satisfying all the requirements of local supply, and that the intervention of the Forest Department in the retail wood trade is as unnecessary as it is contrary to the principles of healthy administration.
- 152. Under Government Resolution No. 7418, dated 8th November 1888, in the Revenue Department, no special arrangements were made to supply the sugar-boilers with firewood, it being decided that these people should provide themselves with firewood from the contractors, who have vast quantities of firewood in their compartments and are ready to sell to all comers, not only for cash payments as the Forest Department must necessarily do in their sales, but also on the credit system.

#### South Thána Division.

153. Departmental fellings were made on a very limited scale. It had been decided that the coupes which remained unsold at the annual auctions should be cut departmentally; but fortunately very few coupes, except in the Bhiwndi range, remained unsold.

154. The following statement gives the result of the year's operations, the number of trees in the coupes being 4,000:—

No.	Ran	ge.		Number of Coupes.	Acreage.	Cost	f fell	ling.	Price	reali	sed.	Net	profi	ts.
1 2 3	Bhiwndi Kalyán Khálápur	•••	•••	, 5 1 1	188 32 40	Rs. 1,949 157 291	a. 9 8 6	p. 10 1 5		a.	p. 0 0 0 0	Rs. 3,108 350 458	a. 10 7 9	p. 2 11 7
		Total	•••	7	260	<b>2,</b> 398	8	4	6,316	4	0	3,917	11	8

155. In addition to these coupes 2,000 teak trees were cut departmentally in the Karjat range at a cost of Rs. 365-15-0, and the sale-proceeds amounted to Rs. 3,487-2-0, leaving a net profit of Rs. 3,121-3-0; the loppings of these trees produced 2,640 khandis of firewood.

## East Khándesh Division.

156. The following statement shows the quantity of different kinds of material cut departmentally:—

	4	2	•	D.(1) 1. T	Raft	ERS.	FUEL, KH	EIGNAI	
No.	Rang			Bábul Logs.	Anjan.	Teak.	Anjan.	Bábul.	Remarks.
1 2 3 4 5 6 7 8	Bhusával Chálisgaon Chopda Edalabad Jalgaon Jámner Ráver Sávda	   	•••		2,500	5,000  15,000  20,000	*1,550 440  1,000 1,000	2,175  3,000 115 245  5,535	*Mixed fuel.

And the cost and receipts of these operations are as under:-

No.		Rang	ė.		Cost.	Receipts.	Net Revenue.
(55)					Rs.	Rs.	Rs.
	Bhusával		4		748	* 0.044	0.000
1				***		3,044	2,296
2	Chálisgaon	•••	•••	• • •	319	1,500	1,181
	Chopda	***	•••	• • •	313	2,527	2,214
<b>4</b> <b>5</b>	Edalabad		•••	• • •	938	3,100	2,162
5	Jalgaon	•••	•••	***	33	~ 205	172
6	Jámner	***		•••	582	5,394	4,812
7	Ráver	***		• • •	398	1,140	742
8	Sávda	***	•••	•••	312	900	588
	94 28						
				Total	3,643	17,810	14,167

#### West Khándesh Division.

157. The departmental operations of the year consisted in cutting teak, khair, anjan and bábul trees, which were subsequently converted into timber pieces or fuel according to the quality of the wood. The following statement will give the details of teak fellings:—

No.,	Range.			Number of Trees.	Converted into Pieces.	C	ost.	<u> </u>	Recei	pfs.		Rema	rks.
	23			*	No.	Rs.	a.	p.	Rs.	a.	p.		
1	Nandurbár			9,700	13,000	300	0	0	3,377	0	0	POT MISSION ING	
2	Navápur		•••	3,700	20,000	704	9	0	2,425	0	0	6,200 pi sold.	eces no
3	Pimpalner			1,414	10,002	412	0	0	651	8	0	8,129	đo.
4	Shirpur			10,772	17,755	480	Ö	0	6,147	1	0		
5	Shábáda	***	• • •	4,275	16,520	497	10	0	4,576	0	9		
6	Taloda	***		6,527	13,586	856	13	0	2,682	8	0-		
		Total		36,388	90,863	3,251	0	0	19,859	1	9		

153. In addition to the above, 1,062 pieces of teak remaining unsold at the close of last year were sold for Rs. 60; and the realizations on account of timber cleared from forest boundary lines amounted to Rs. 320-6-0.

159. The fuel operations consisted of khair, anjan and babul, and the details are as under:

No.	Range.		Number of Trees.	Cubic feet rough stack.	C	ost.		Rec	eip <b>t</b> :	3,	F	temarl	ξ9.
	20.000		A0.215.000	Page 1	Rs.	a.	p.	-	a.	p.			
1	Dhulia	•••	23,106	294,100	1,473	7	6	1,590	0	0		sold.	bic feet
2	Nizámpur		2,590	67,837	255	4	0	989	12	0			
2. 3	Sindkheda	•••	21	425	0	12	0	4	13	0	325	do.	do.
	Ťotal	•••	25,717	362,362	1,729	7	6	2,584	9	0			

160. The Public Works Department bought 727 teak pieces for Rs. 416-12-0.

## Násik Division.

161. The departmental operations in timber and firewood are given in the following table:—

No.	Ran	<u></u>	ĺ	Teak	] ]	Firewoo	D.	Cos	.4		Recei	nt-		P=
	Lette	ge.	ž	Loga.	Khandis.	Logs.	Cubic feet.	Cus	i b.		Medel	hra	•	REMARKS.
	· · · · · · · · · · · · · · · · · · ·						-	Rs.	8.	p.	Rs.	а.	p.	
1	Násik			184	] ·•	•••	45,000	348	6	7	604	14	0	
2	Igatpuri		.,	2,000	50	174	27,406	275	0		524	7	0	
3	Sinnar			812	20	***		208	5	8	295		0	
4	Niphad	,		•••	•••	••	4,680	52	10		156	5	0	
5	Chándyad	***		1,010		***	· · · · · · · · · · · · · · · · · · ·	70	2		605	15	0	
6	Yeola					•••			10					
7	Nändgaon	•••	•••	•••	]	***	54,000		10		800		0	
8	Málegaon	***	••••	950*		•••	48,726	248	.3		908		10	*Anjan logs,
9	Kalvan	,***	***	8,540	50	•	4,860			10	2,462	0	0	
10	Báglán			2,349	100		100	130		10	693	5	0	
11	Peint	•-	•••	4,196		•••	***	391	7	2	17,728	11	0	These amounts include the realizations from timer remaining on
12	Dindori			10,172	592	***		398	15	6	5,268		11	hand from last year.
		Total		30,213	812	174-	1,84,672	2,738	11	6	30,048	8	11	

## Ahmednagar Division.

## 162. The following is a statement of felling operations:-

				Number	YIE	LD.							20
No.	Rang	e.		of Trees.	Timber Rafters.	Fire- wood.	Cos	st.	-	Recei	pts	•	REMARKS.
	Teak					C. ft.	Rs.	a.	р.	Rs.	a,	р.	,
1 2	Akola Sangamner			11,244 7,974	30,169 20,077	14,698 6,301	666 483		0 6	$\frac{3,865}{3,024}$	2 8	11 9	The firewood shown consists of lop- pings, &c., of the
		Total		19,218	50,246	20,999	1,149	7	6	6,889	11	8	trees cut.
	Jámbi	ıł.											•
$\frac{1}{2}$	Akola Sangamner		•••	2,571 1,064	10,074 5,040	7,186 5,125	189 .99		6	238 353		$_{6}^{0}$	
		Total		3,635	15,114	12,311	289	6	6	591	13	6	

In addition to the above, 41,029 cubic feet of firewood were cut at a cost of Rs. 203-10-0 in Shrigonda, Shevgaon, Nevása, Kopargaon and Sangamner ranges, and the sale-proceeds amounted to Rs. 1,123-13-0.

## Poona Division.

## 163. The material worked out departmentally is as under:-

			Number of	<b>Y</b> 1	IELD.	_		
No.	Range.	11 - 122 (2 - 120	Teak Trees.	Pieces.	Firewood.	Cost.	Receipts.	Remarks.
			1.		C. ft.	Rs.	Rs.	
7 2 3 4 5 6	Junnar Ambegaon Khed Mával Haveli Purandhar	••	19,000 12,289 1,132 10,351	12,376 33,995 48,094 1,739 20,850 19,294	1,400 13,000 8,000 262 34,500 6,300	2,935	27,699	
20 20 20 20	$\mathbf{T}_{0}$	tal	46,920	136,348	62,462	2,935	27,699	

## 164. The following statement will give the details of firewood operations:—

No.	Range.	Number	MAT	ERIAL.	Cost.	Receipts.	Remarks
140.	ı.u.ge.	of Trees.	Logs.	Stacks.	Cost.	Itecorpus,	, ,
			Cubic feet.	Cubic feet.	Rs.	Rs.	
1 2	Junnar Haveli	77 503		2,964 13,585	37 288	339 2,792	
3 4	Bhimthadi Bárámati	7,964 6,175	42,989	85,211 18,813	$\substack{\textbf{1,106}\\\textbf{235}}$	4,667 75 <b>7</b>	
5	Sirúr	8,581	6,607	50,127	764	2,385	
	Total	23,300	59,946	170,700	2,430	* 10,940	

#### Sátára Division.

165. The following statement exhibits the departmental operations in teak, including teak trees in occupied survey numbers the occupants of which declined to purchase the trees at the valuation rates:—

No.		Ran	ge.		Yield in Pieces.	Coi	st.		Rece	ipts.	
						Rs.	а.	р.	Rs.	a.	p.
1	Jávli	***	***		3,062 •	83	5	0	254	0	0
2	Karád		•••		5,635	190	15	0	2,095	0	0
3	Koregaon		***		2,783	80	1	0	847	0	0
4	Patan	***			18,811	745	2	9	6,793	0	0
5	Sátára	•••	• • •		7,431	162	8	0	1,036	0	-0
6	Shirála	***	***	• • •	11,603	291	5	0	3,200	0	0
6 7	Wái		***	***	3,069	89	15	6	1,000	0	0
	16 16		Tot	al	52,394	1,643	4	3	15,225	0	0

The junglewood pieces cut in addition are as under:-

No.	Range.	Pieces.	Cost.	Receipts.	Remarks,
1 2 3	Mahábaleshvar Pátan Tásgaon Total	*4,563 2,900 318 7,781	Rs. a. p. 149 13 8 154 13 6 89 7 0	Rs. a. p. 358 13 5 438 12 0 423 11 0	*610 pieces remained unsold at the end of the year.

166. The firewood fellings were as under, including loppings from teak fellings:—

No.		Range.			Cubic feet.	Co	st.		Recei	pts.	
			9		30 S	Rs.	a.	p.	Rs.	a.	p.
1	Koregaon	***			1,096			- 1	31	5	0
$\frac{1}{2}$	Karád		•••		13,342	69	15	0	218		Ğ
$\tilde{3}$	Khandála	T	•••		2,250	20	13	0	59	14	3
4	Mahábaleshva		•••		74,396	1,209	15	6	1,946	8	0
4 5	Pátan				33,000	226	10	9	789	. 7	0
	Sátára	•••	***	• • •	12,408	125	8	0	257	11	0
6 7 8 9	Shirála	•••	•••	•••	6,188	22	13	0	79	10	0
8	Tásgaon	***		•••	17,010		•••		184	<b>4</b>	0
9	Wái		(P.41)	•••	14,715	93	1	0	334	8	0
			Total	***	174,405	1,768	12	3	2,901	12	9

<sup>436</sup> khandis and 14 maunds remained unsold in the Malcolmpeth Depôt at the close of the year.

## Sholápur Division.

168. There are no teak fellings in this division, but 1,352 cubic feet of babul and nimb timber were cut at a cost of Rs. 15 in the Sholapur and Pandharpur ranges and sold for Rs. 173-4-0.

<sup>167.</sup> No charcoal operations were undertaken departmentally, as the results of the previous years were not encouraging.

169. Firewood operations were undertaken in the Sholapur, Barsi, Madha, Karmala and Pandharpur ranges, and 18,172 cubic feet of firewood were cut at a cost of Rs. 144-8-9 and sold for Rs. 1,134-0-6, leaving 1,454 cubic feet unsold on hand at the close of the year.

#### Surat Division.

170. The departmental fellings in this division are as under:-

	2		YIELD	).			Cost.			Recei	nta	REMARKS.
No.	Range.	Rafters.	Kh.,	Ft.	In.	Р.	Cost	J.	_ -	Trece	pes.	REALINAS.
			0.0H2			10	Rs. a	1.5	•	Rs.	a. p.	
1 .	Dángs		2,272 $1,174$	1 10	1 2	10°	32,840	1	8 22	,713	14 11	
2	Mándvi .	2,976	•••	•••	•••	•••	588	8	1*1	8,244	1 12 8	*This amount in- cludes the sale- proceeds ** of 49,871 rafters
				To	tal.		3,428	9	9 40	0,958	11 5	from last year.

#### Panch Maháls Division.

171. The following statement gives the details of departmental operations undertaken in this division:

				Ą	IELD.					
No.	Ra	nge,		Teak Rafters.	Firewood.	Cos	st.	Receipt	.8.	Remarks.
1 2 3	Godhra Hálol Kálol	***	• • • • • • • • • • • • • • • • • • • •	27,839 3,969	C. ft. 114,762 71,424	Rs. 578 125 376	a. p. 14 10 1 1 0 9	704 648 1	1	
		Total	• • •	31,808	186,186	1,080	0 8	1,352 1	10 0	

172. Of the above material 12,263 rafters of the value of Rs. 724-2-7 were handed over from the Godhra Depôt to the Revenue Department as per Government Resolution No. 3404, dated 28th May 1888, as free grants to the villagers of Kuha in the Daskroi Taluka of the Ahmedabad Collectorate and the remaining material at the Godhra Depôt was supplied to the sufferers by the Godhra fire, as per Government Resolution No. 2952, dated 17th April 1889.

#### Bámbus.

173. In the Satara Division bambus were cut departmentally last year; but this year no departmental operations were undertaken anywhere, as the sale results of previous years were not satisfactory; for unless bambus are disposed of speedily they deteriorate, and it is difficult to find purchasers for them.

#### OTHER MINOR PRODUCE.

## North Thána Division.

174. The special departmental arrangements for cutting and preparing ain bark to meet the requirements of the Koli fishermen have been discontinued, as larger quantities of bark than this Department used to exploit formerly

are now obtainable from the contractors, who purchase timber standing in compartments which contain many ain trees, and who bring the bark to the coast towns and villages for sale.

175. The hirda in the Kewnala forests of the Váda range, which has hitherto been collected with the Mokháda hirda and sold to the credit of the South Thána division accounts, was departmentally collected, sold and its price credited to the North Thána division during the year with the following result:—

The state of the s	Quantity.	Cost.	Receipts.	Net Result.	Rate per Khandi.	Remarks.
	Kh. m. s.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	
sowing purposes.	*108 26 13	679 14 10	<b>1,727</b> 6 6	1,047 7 8	16 0 0	*Out of this one khaudi hirda was retained for sowing purposes.

## South Thána Division.

176. The only departmental operation under this sub-head was the collection of hirda. The fruit is collected in the forests by the Thákurs and other wild tribes and brought to depôts, where it is weighed and paid for by-depôt officers appointed for this duty. The hirda crop during the year was exceptionally good; there was an increase of 61 khandis over the quantity of last year. The following statement will give the details of the operation:—

Number.	F	lange.			Quan	tity.		Cos	it.	(1) (1) (1) (1) (1) (1) (1) (1) (1) (1)	Recei	pts.	
	330000		30 <del>1-1</del> 0, 32		Kh.	m,	8.	Rs.	a.	p.	Rs.	8.	p.
1	Mokháda	••	***	٠,٠,١	158	18	2	968	0	0	2,637	8	4
2	Khardi		•••		85	6	12	692		8	1,417	8 3 6	3
2 3 4	Sháhápur		***		13	0	6	85	8	4	216	6	1
4	Kalyan		***		5	11,	12	33	0	0	90	2	8
5	Karjat	***	•••	•••	2	21	1	44	Ò	0	45	11	6
			Total		265		0	1,823	4	0	4,406	15	10

#### West Khandesh Division.

177. 58 cart-loads of leaves of the anjan tree, Hardwickia binata, collected at the departmental fellings in Dhulia range were sold for Rs. 10, and 31 bundles of teak leaves collected at Pimpalner remained unsold at the close of the year.

## Násik Division.

178. No departmental collection of hirda was undertaken in this division, but it was collected under a share system, 51 khandis, 3 maunds and 9 sers were thus received in the Igatpuri and Násik ranges, but it all remained unsold at the close of the year owing to very unsatisfactory offers which had been made for it.

#### Ahmednagar Division.

179. 340 Bombay khaudis, 4 maunds and 12 sers of hirda were departmentally collected and sold at Rs. 27-5-0 per Deshi khandi, giving a total revenue of Rs. 3,743-2-10. The cost of collection amounted to Rs. 2,258-9-3. The increased collection of hirda during the year is due to the unusually slight loss by high winds and rain at the commencement of the season; and it is hoped that the system of roads now in course of construction or proposed, in the Akola gháts, will in future facilitate the transport of this produce and thus enhance its value.

#### Poona Division.

180. The hirda revenue owing to increased collections shows a considerable advance over last year. The details of the operation are as under:—

No.	Ra	nge.		Quantity lected		Cos	st.		Rec	eipts	•	Remarks
				K.	m.	Rs.	8.	p.	Rs.	a.	p.	
1	Junnar	•••		10	4				151	3	3.	
2	Khed			19	4 5 2				267	9	4	
2 3 4	<b>Ambegaon</b>	***	•••	22					378	13	1	
4	Mával	***		21	0	•••			226	9	3	
5	Mulshi	•••	•••	198	8	1,348	8	3	2,513	11	11	
		Total		271	9	1,348	8	3	3,537	14	10	

181. The share system of hirda collection was extended to Mával range this year, but it was found impossible to extend it to Mulshi. The yield has been unprecedented in Mulshi owing to special exertions on the part of the local forest establishment.

## Sátára Division.

- 182. A departmental collection of hirda was undertaken in four ranges as remunerative prices for the right of collecting could be obtained only in the two ranges of Satara and Wai. The departmental collections not only exceeded expectations, but the prices realised were also very good. 856 khandis 23 maunds and 10 seers were collected at a cost of Rs. 5,745, and the sale proceeds of 678 khandis out of the quantity amounted to Rs. 13,478.
- 183. The right of collection of shikakai, the pod of the Acacia concinna, was sold for Rs. 766, and the balance on hand from the previous year was also sold for Rs. 1,398-12-9.

#### Sholápur Division.

- 184. There were no departmental operations under this head in this division, but 8 khandis and 2 maunds of babul bark stripped from the trees cut departmentally were sold for Rs. 16-2-6.
- 185. The following statement will show the results of hirda collection of the year under report and of the preceding year:—

						Yie	eld.				(	Cos	st.				R	ece	ipts.		-39
No.	Divis	ion.		188	7-8	8,	188	8 <b>-8</b>	9.	1887	-88.		1888	-89		1887	-88		1888	8-89	-
				К.	m.	В.	K.	m,	8.	Rø,	а.	p.	Rs.	а,	p.	Rs.	a.	p.	Rs.	а,	<b>p.</b>
1	North Thána	***					108		200				679						1,727		6
2	South Thána Násik	•••	•••	204 100			265 51	3	9	1,614 630		8	1,823 56	4 5			5	9	4,406		10
	Ahmednagar	•••	•••	170		6	340	4	12	1,144		Ô	2,258	9	3		12	10	3.743		10
5 6	Poona			142		6	271		3	556	11	9				2,336	14	1	0,000		
6	Sátára	***	ű.,	385	15	10	349	17	7	2,699	5	9	5,745	2	9	5,246	2	. 11'	13,477	10	. 1
		Total	.,,	1,002	23	5	1,386	25	2	6,645	15	3	11,911	12	9	13,593	11	2	26,893	. 2	3

# 2.—TIMBER AND OTHER PRODUCE REMOVED FROM THE FORESTS BY CONSUMERS OR PURCHASERS.

TIMBER AND FIREWOOD.

#### North Thána Division.

186. During the year 109 compartments which had been laid out on the ground by the Divisional Forest Officer Working Plans, and carefully defined by cairns and other boundary marks, and in which a careful selection of standards

and seed bearers for reservation had been made, were offered for sale, but only 86 of these were sold, the remaining 23 being kept back as the offers for them were too low.

187. The results of the sales are as under !-

LEI				Number of Area of		Yn	ELD.	n i
No.	Ran	ige.		Coupes.	Coupes,	Timber.	Firewood.	Receipts.
			7-77 11		Acres.	Pieces.	Khandis.	Rs.
1 2 3 4 5 6	Sálsette Bassein Máhím Váda Dáhánu Umbargaon	•••	•••	30	71 627 1,299 389 1,340 244	2,682 19,599 66,272 48,628 110,449 13,121	558 15,810 36,996 2,290 12,484 7,991	1,866 21,446 38,003 18,611 57,336 10,334
. v sw		Total	•••	86	3,970	260,751	76,129	147,596

188. Under the permit system which is still employed as a means of meeting the requirements of the local population, but which, it is hoped, will shortly be abandoned as the people have so many facilities for obtaining timber, firewood and other material from the contractors' fellings, the following sums were realised on account of dead-wood removed from the forests:—

No.	Range.	Head-l 9 pies 6 pies 3 pies	, ma . woı	n nan	Large (			Small C 8 annas			Kowl F			Tot	tal.	
		Rs.	a.	p.	Rs.	a.	p.	Rs.	а,	p.	Rs.	8,	p.	Rs.	a.	p.
1	Sálsette	447	0	0		•••	-	13	0	0	•••			460		0
2	Bassein	16	0	0	1,309		0	102	0	0	516	0	0	1,943	0	0
.3	Máhím	No.						1,726	0	0	407	0	0	2,133	0	0
4	Dáhánu	74			4 491		-	1,650	0	0	441		i	1,650	0	0
5	Umbargaon	fer o		- 1	152			172	0	0				172	0	0
6	Váda		• • • •			•••		17	0	0	•••		ļ	17	0	0
	Total	463	0	0	1,309	0	0	3,680	0	0	923	0	Ó	6,375	0	0

#### -South Thána Division.

189. The timber removed by purchasers realised on the whole very fair prices, and the sales were all effected early. These sales were of two kinds, one of coupes by area, and the other of teak trees marked for the axe. The following statements exhibit the results of such sales:—

Coupe sales.

Nor		Range.			Number of Coupes.	Area.	Rēceir	ots,		Remarks
				300 305 744		Acres.	Rs.	a.	р.	
1	Bhiwndi	***		•••	11 14	49 <b>7</b> 551	16,162 18,166	0 8	0	
2 3 4	Kalyán Khálápur	•••		***	2	104	1,981	0	0	
4	Sháhápur	•!*	•	•••	2	179	3,831	0	0	
			Total	, , ,	29	1,331	40,140	8	0	

Sales of Teak Trees.

No.	8	Range.		Number of Trees.	Prices rea	lized	ι,	Remarks.
					Rs.	a.	p	7
1	Sháhápur			16,000	15,640		Ó	The average price
2	Khardi			8,000	7,516	0	0	per 100 trees wa
3	Mokháda	•••	•••	8,000	9,110	0	0	Rs. 95-8.
4	Murbád	141		12,000	11,310	12	0	
4 5 6	Karjat			19,740	16,851	4	0	
6	Khálápur	***	•••	8,000	8,081	0	0	
		Tot	al	71,740	68,509	0	0	•

- 190. The forest growth on the Tansa Lake bed was sold last year to Mr. Bhojabhai Allarakhé for Rs. 1,10,001, to be paid in ten quarterly instalments, and the four of these, amounting to Rs. 44,000, which became due, were punctually paid by him during the year, leaving three instalments still to come in.
- 191. In connection with the Tansa Water-works, extensive sales of wood were made to different companies. 12,088 teak and 12,507 other trees were sold to Colonel Beaumont, and Messrs. Walsh, Lovett, Mitchel and Co., at a price of Rs. 11,569-4-0, and 1,959 teak and 5,190 other trees were sold to Messrs. Glover and Co. at a price of Rs. 3,364-8-0. Special coupes were marked, and set out for the contractors to fell and exploit all the unreserved timber from and the operations were conducted by them with care and consideration for the standards. The contractors of the Tansa Lake and of the duct line have maintained excellent discipline over the thousands of workmen they employ, so that the forest reserves have not suffered at all in the neighbourhood of their works. Timely arrangements have been made to provide all probable requirements of timber and firewood, and cordial relations have been maintained between the contractors and the forest officers, and the officers of the Bombay Municipality, who have heartily co-operated with each other in carrying out a great public work, and at the same time in protecting, as far as possible, the interests of the contractors, of the Municipality, and of the State.
- 192. The quantity of firewood removed from the forests by consumers in cartloads and head-loads, on permits obtained by payment of fees, amounted to khandis 2,192, which realized Rs. 1,198-6-11.
- 193. In the two Khandesh divisions timber to the value of Rs. 18,166 and firewood worth Rs. 11,101 were removed by purchasers under the permit system. The following statement will give the realizations from timber and firewood in all the other divisions of the Northern Circle:—

No.							
	Division	•	-	Timber.	Firewood.	Total.	Remark
		····		Rs.	Rs.	Rs.	· · · · · · · · · · · · · · · · · · ·
-1	Násik		]	8,488	808	9,296	
2 3	Ahmednagar			204	641	845	
	-Poona		• • •	130	1,673	1,803	
4	Sátára			2,805		2,805	
5 <sup>-</sup> 6	Sholápur		• •	290	*****	290	
6	Surat		•••	35,429	2,284	37,713	
7	Panch Mahals	•	••• _	33,893	932	34,825	
		Total	•••	81,239	6,338	87,577	

BA'MBUS.

194. In the North Thana division bambus were removed by villagers for agricultural purposes on the permit system, and the following statement shows the details of amounts realized:—

No.	Range.	Padhai Bámbus @ Rs. 5 per 100.	Manvel Bámbus @ Rs. 3 per 100.	Bundhi Bambus @ 8 annas per cart.	Zitas @ 3 annas per cart.	Karal @ 4 annas per cart.	Total.
		Rs.	Rs.	Rs.	Rs.	Rs.	Rs,
1	Sálsette	89	21		2	44	156
2	Bassein	579	316	643	232	303	2,07
3	Máhím	115	<b>4</b> 28	801	256	63	1,66
	Dáhánu	412	236	416	103	11	1,17
4 5	Umana aon .	4	22	79	46	23	17
6	Váda	80	28	139	7	•••	25
	Total	1,279	1,051	2,078	646	444	5,49

In addition to the above, 3,00,000 manvel bambus were sold, to meet the requirements of trade, for Rs. 6,560.

195. In the South Thána division 150,000 manvel bámbus were sold in the Mokháda range at Rs. 2 per 100, realizing Rs. 3,000, and other petty sales of bámbus to the extent of Rs. 544, make up the total realizations Rs. 3,544 in this division.

196. The following statement exhibits the realizations from bambus in all the other divisions of the Northern Circle:—

No.	Division.		Bámbus in Numbers.		Amount real	Remarks.		
				-	Rs.	8,	р.	
1	East Khándesh	{	No. 256,800 Head-loads 1,04	0 }	3,719	0	0	
2	West Khandesh		256,772 No. 178,407		$\frac{2,562}{3,824}$	7	9	
3	Násik"	}	Cart-loads 91 Head-loads 831		106 56	8 15	0	
4	Ahmednagar		33,441		342		1	
4 5 6	Poona		<b>- 169,849</b>		1,753		0	
6	Sátára		18,357		114		0	
7	Surat		627,404	•	12,237	0	. 5	
8	Parich Mahals		162,123	•	1,986	0	6	

OTHER MINOR PRODUCE.

197. The following statement will show the realizations from minor produce, such as apta and tembhurni leaves, shembi bark, tarwad, honey, wax, fruits, stones, karvi, &c., removed from the forests by consumers or purchasers in the several divisions of the Northern Circle:—

No.	1	Divisio	n,			Amour	at.		Rrmarks.		
1 2 3 4 5 6 7 8 9	North Thána South Thána South Thána East Khándesh West Khándesh Násik Ahmednagar Poona Sátára- Sholápur Surat Panch Maháls					Rs. 4,101 2,375 542 *9,300 1,399 1,418 2,913 4,044 530 6,337 2,193	a. 0 0 0 0 0 0 0 0	p. 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	* Of this amount Rs. 7,780 are for rosha grass stills.		
11	1 Wilen Digitals	•••		Total	•••	35,152	0	0			

## 3.—PRODUCE REMOVED BY RIGHT-HOLDERS.

• 198. No rights, save of way and water access, have been found to attact to the forests of the Northern Circle by the Forest Settlement Officers, and therefore right-holders have no locus standi in the forests.

#### 4.—FREE GRANTS OF TIMBER.

199. A comparative statement of free grants of timber which have been made from forest reservations during the past two years in the several divisions of the Northern Circle is given below:—

No.	Divis	ion.			1886	87.	1	1887	-88.		1868	.89,	
				_ -	Rs.	a.	р.	Rs.	a.	p.	Rs.	a.	p.
1	North Thána		•••		50	0	0	43	14	0	340	Ó	0
	South Thána	• • •			336	5	0	1,464	4	0	1,166	- 8	0
2 3	East Khándesh		***				2000	15	10	0			
4	West Khándesh		***		1,639		0	651	`3	•6	159	4	0
5	Násik				348		4	520	10	4	367	9	7
6	Ahmednagar						6092	34	7	8	4	0	0
7	Poona				120	0	0	95	0	0	817	0	0
6 7 8 9	Sátára	***			52	8	0	190	8	0	85	8	0
9	Sholapur		***			•••					·		
10	Surat		***		724	0	0	36	0	0	198		0
11	Panch Maháls	•••	***		973	10	0	998	5	6	807	5	0
9			Total		4,244	5	4	4,049	15	0	3,440	10	7

Imports and Exports of Forest Produce.

200. The following statement shows the imports and exports in the North Thana division:—

<b>3</b> 7.	7	Імео	RTS.		Remarks		
No.	Range.	Timber.	Firewood,	Timber.	Firewood.	Manvel Bámbus.	REMARK!
		Pieces.	Khandis.	Pieces.	Khandis.		
1	Sálsette	2,740	2,535	1,037	454	•••	8
2	Bassein				20,318	6,326	
3	Máhím	1		70,034	34,929	66,777	
4	Dáhánu	.]	,	110,281	12,461	169,019	
5	Umbargaon		<sub>430</sub>	11,377	7,611	•••	
6	Váda			43,274	1,795	•••	
	•		<del></del>			The second second	
	Total	2,740	2,965	236,003	77,568	242,122	

201. There is a very large import trade of teak and other timber, bámbus and firewood in the Khándesh District from the Mewas States, Barwani, Holkar's territory, Gáikwár's State, &c. The import duty on such material amounted to Rs. 31,858 against Rs. 27,313 in the previous year. The following statement shows the importations of timber, firewood, charcoal and bámbus into the West Khándesh division during 1888-89 from the six Mewas States:—

No.	Name of 1	Mewas State.		Cart-loads.	Head-loads.	Donkey-loads.	Total.
1 2 3 4 5 6	Singaspur Chikholi Nawalpur Nala Raisingpur Kathi	***	•••	669 4,324 355 235 6,579 4;119	124  2  294 136	 • •	793 4,324 357 235 6,873 4,352
9		Total	• • •	16,281	556	97	16,934

- 201-A. It has not been found to be possible to reduce to the denomination of cubic feet all the timber and firewood exploited from the forests because in the first place the small timber consisting of rafters, &c., which is by far the larger portion of the timber yield of the forests of the Northern Circle, is not measured, and in the second place no attempt is made or could be made to measure the timber on foot in the coupes which are sold to contractors and purchasers to exploit, for the magnitude and cost of such work prohibit this being done. A very rough estimate of the out-turn in cubic feet could, of course, be drawn up, but it would have no pretence to accuracy and Government have ordered that in official reports hypothetical figures should be avoided. Indeed the advantage of an estimate in cubic feet of the timber &c., that has been exploited from the forests of several divisions of a circle is open to question, for it may mislead instead The financial statement of the year conveys information regarding of instruct. the revenue yield of forests, and these figures which are correct are more useful for comparisons than mere estimates of what has been the yield in timber or firewood.
- 201-B. Timber and other forest produce is exploited from the forests chiefly by means of carts drawn by bullocks, as cart roads traverse the forests in all directions. When the fellings are made upon the sides of hills, of ravines, and in other places inaccessible to carts, the timber is dragged up or down, as the case may be, to the nearest cart track generally by oxen, buffaloes being largely employed; the animals are yoked to the larger end of the log and they drag it along the ground. Manual labour also is largely utilized in conveying rafters and small timber from difficult parts of the forests to roads and temporary depôts &c. Pack-bullocks are likewise used for the carriage of forest produce. The Wanjárás in the Sátpuda forests bring bamboos and small logs of wood to the market towns of the Tapti valley by means of pack animals.

## CHAPTER V.

#### FINANCIAL RESULTS.

202. The forest revenue of the year is the largest on record, as will be seen from the figures given below, dating from 1878-79, the year of the introduction of the Indian Forest Act, whereby forest conservancy became more real and effective than it had been before.

	•			Rs.
1878-79 .	• •	***	***	4,48,850
1879-80 .		***		6,07,625
1880-81 .		***		6,12,710
1881-82 .	••	***	***	7,99,498
1882-83	• •		***	9,13,532
1883-84 .		***	•••	9,58,315
1884-85 .	• •	•••	***	10,08,725
1885-86 .		***		10,37,297
1886-87 .		•••	,,,	9,13,101
1887-88			***	9,68,625.
1888-89	• •	•••		11,60,769

203. The following statement conveys a comparison between the revenue and expenditure of the year under report and that of the preceding year:—

•							Expenditure,												
Official year.			Receipts.			A. Conservancy and Works			B. Establishment.			Total.			Net Revenue.				
				Rs.	a.	<b>p</b> .	Ps.	a.	p.	Rs.	a.	p.	Rs.	8.	p.	Ŕs.	8.	p.	
1887-88 1888-89	***	•••		9,68,625 11,60,768		5 5		14 7	1 4	<b>4,97,039</b> <b>4,85,575</b>	9 12	9 5			10 9			8	
Increase	***	***		1,92,143	5	0	15,740	9	3				4,276	11	11	1,87,866	9	1	
Decrease	***	2.10	•••			_		,	_	11,463	13	4	****	•			la fa	••••	